

TA-SP55

SERVICE MANUAL


*AEP Model
UK Model
E Model*



TA-SP55 is the amplifier section
in CMT-SP55MD or CMT-SP55TC.

This stereo system is equipped with the Dolby* B-type noise reduction system.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol  are trademarks of the Dolby Laboratories Licensing Corporation.

SPECIFICATIONS

European model:

DIN power output (Rated): 25 + 25 watts (8 ohms at 1 kHz, DIN, 230 V)

Continuous RMS power output (Reference):
30 + 30 watts (8 ohms at 1 kHz,
10% THD, 230 V)

Music power output (Reference):
75 + 75 watts

Other models:

DIN power output (Rated): 25 + 25 watts (8 ohms at 1 kHz, DIN, 240 V)
22 + 22 watts (8 ohms at 1 kHz, DIN, 220 V)

Continuous RMS power output (Reference):
30 + 30 watts (8 ohms at 1 kHz,
10% THD, 240 V)
28 + 28 watts (8 ohms at 1 kHz,
10% THD, 220 V)

Output
PHONES (stereo phono jack):
accepts headphones of 8 ohms or more.

General

Power requirements

European model: 230 V AC, 50/60 Hz
Other models: 110 – 120 V or 220 – 240 V
AC, 50/60 Hz

Power consumption 70 watts

Dimensions (w/h/d) Approx. 202 x 101 x 306 mm

Mass Approx. 3.9 kg

Design and specifications are subject to change without notice.

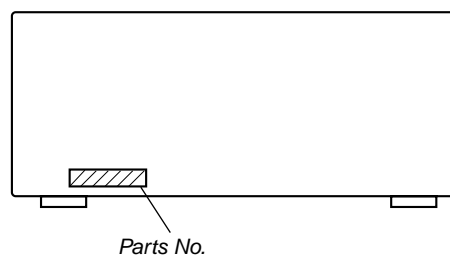
MICRO Hi-Fi COMPONENT SYSTEM

SONY®

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MODEL IDENTIFICATION



MODEL	PARTS No.
AEP, AED, UK model	4-229-700-0□
MY, SP model	4-229-700-2□
HK model	4-229-700-3□
KR model	4-229-700-4□

- Abbreviation
 - AED : North European model
 - MY : Malaysia model
 - SP : Singapore model
 - HK : Hong Kong model
 - KR : Korea model

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

SERVICING NOTE

This unit cannot be repaired by itself.

When repairing, connect the whole system except for the speaker.

CD Text Display

- This unit displays CD text.




Text is displayed for the first 50 track only and will not be displayed from the 51st track onwards. Do not suspect a fault in this case.

In some cases, some special characters will not be displayed and may be replaced by other characters. Do not suspect a fault in this case.

Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.



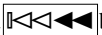
Procedure :

- When the power ON, press the  button (TA) while pressing the  button (ST) and  buttons (CDP) together.
- “COLD RESET” is displayed on the fluorescent indicator tube and reset is executed.

Hot Reset




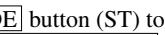



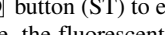

- This mode reset the preset data kept in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure :

- When the power ON, press the  button (TA) while pressing the  button (ST) and  buttons (CDP) together.
- Turn off the unit and reset is executed.




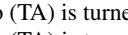
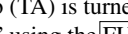
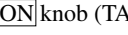
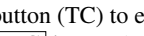
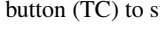
GC Test Mode

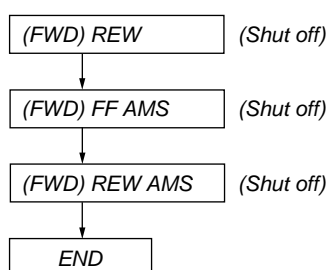
Procedure :


- When the power ON, press the  button (TA) while pressing the  button (ST) and  buttons (CDP) together.
- Fluorescent indicator tube are all turned on.
- Press  button (ST) to enter the model destination indication mode. “SP55 CE2” appears.
- Every pressing of  button (ST) changes the display in the following order.
MC Version → CD Version → ST Version → TC Version → TA Version → TM Version → model destination display.
- Press  button (ST) and the date appears as “00615a”
Every pressing of  button (ST) changes the display in the Version display and model destination display.
- Press  button (ST) to enter the key check mode.
- In the key check mode, the fluorescent indicator tube displays “Key 0 Vol 0”. Each time a button is pressed, “Key” value increases. However, once a button is pressed, it is no longer taken into account.
“Vol” Value increases like “1, 2, 3 ...” if rotating  knob (TA) in the clockwise direction, or decreases like “0, 9, 8 ...” if rotating in the counterclockwise direction.
- To exit from this mode, press three buttons in the same procedure as step 1, or disconnect the power cord.

MC Test Mode

Procedure :

- When the power ON, press the  button (TA) while pressing  button (ST) and  button (CDP) together.
- Frame of the MD mark and the CD mark flash, and “BASS/TRE FLAT” appears for a moment.
- When the  knob (TA) is turned clockwise, “VOLUME MAX” appears for a moment.
- When the  knob (TA) is turned counterclockwise, “VOLUME MIN” appears for a moment.
- Select the function “TAPE” using the  knob (TA).
Set the test tape AMS-110A or AMS-120.
- Press  button (TC) to enter either “↺↻” (loop) or “↻↺” (two way).
- Press the  button (TC) to start the AMS test.

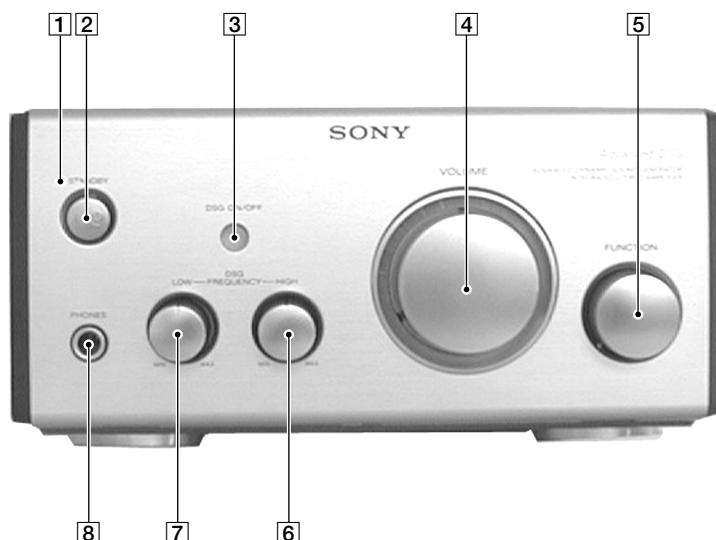


- Number of AMS signals is counted during the AMS test and the message “EDG#” (# means a number) appears. When the test tape either AMS-110A or AMS-120 is used, the AMS signal is detected twice before shut off.
- When the AMS test ends, either “OK” or “NG” appears.
- To exit the MC test mode, either press the  button (TA) or perform the cold reset as described above.

SECTION 2 GENERAL

This section is extracted from instruction manual.

FRONT PANEL



- 1 STANDBY indicator
- 2 I/⏻ button
- 3 DSG ON/OFF button and indicator
- 4 VOLUME knob
- 5 FUNCTION knob
- 6 DSG FREQUENCY HIGH knob
- 7 DSG FREQUENCY LOW knob
- 8 PHONES jack

- 2** Press ◀◀ or ▶▶ to set the hour, then press ENTER/YES.
The minute indication flashes.



- 3** Press ◀◀ or ▶▶ to set the minute, then press ENTER/YES.
The clock starts.

If you made a mistake

Start over from step 1.

To change the preset time

You can change the preset time while the system is on.

- 1 Press CLOCK/TIMER SET.
- 2 Press ◀◀ or ▶▶ repeatedly until "SET CLOCK" appears, then press ENTER/YES.
- 3 Repeat steps 2 and 3.

Tips

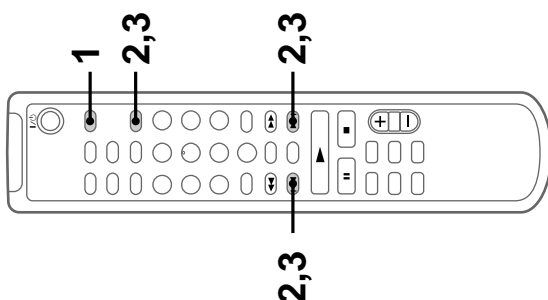
- The built-in clock shows the time in the display while the system is off. If you press DISPLAY at this time, the display back light lights up, making the clock easier to see.
- The upper dot of the colon flashes for the first 30 seconds, and the lower dot flashes for the last 30 seconds of each minute.

Step 2: Setting the time

You must set the time beforehand to use the timer functions.

The clock is on a 24-hour system for the European model, and a 12-hour system for other models. The 24-hour system is used for illustration purposes.

Set the time before turning on the system.



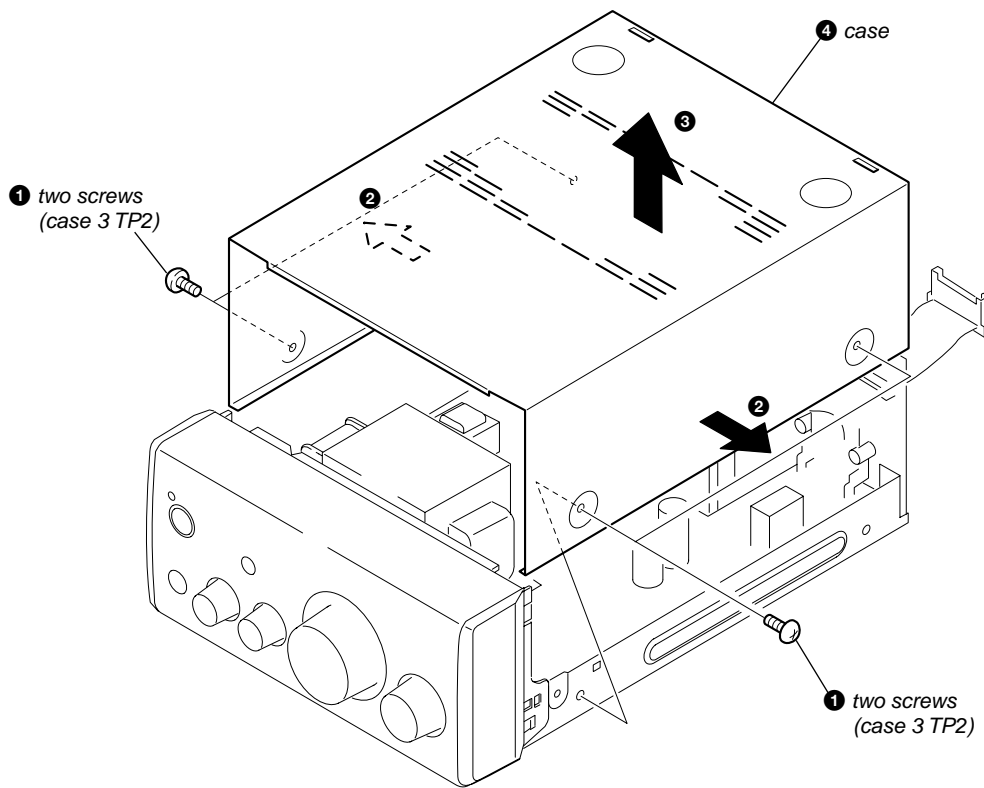
- 1** Press CLOCK/TIMER SET while the system is off.
The hour indication flashes.



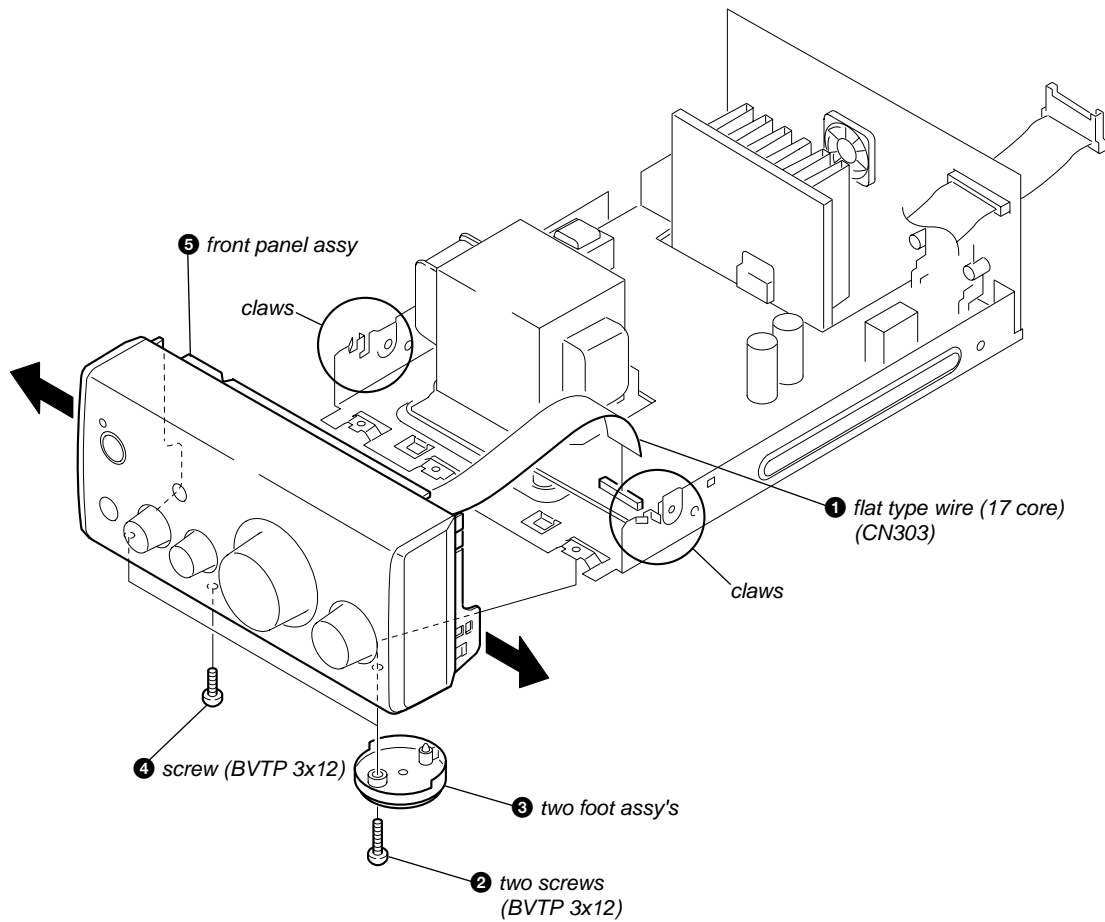
SECTION 3 DISASSEMBLY

Set → Case → Front Panel Assy → HP Board, Panel Board

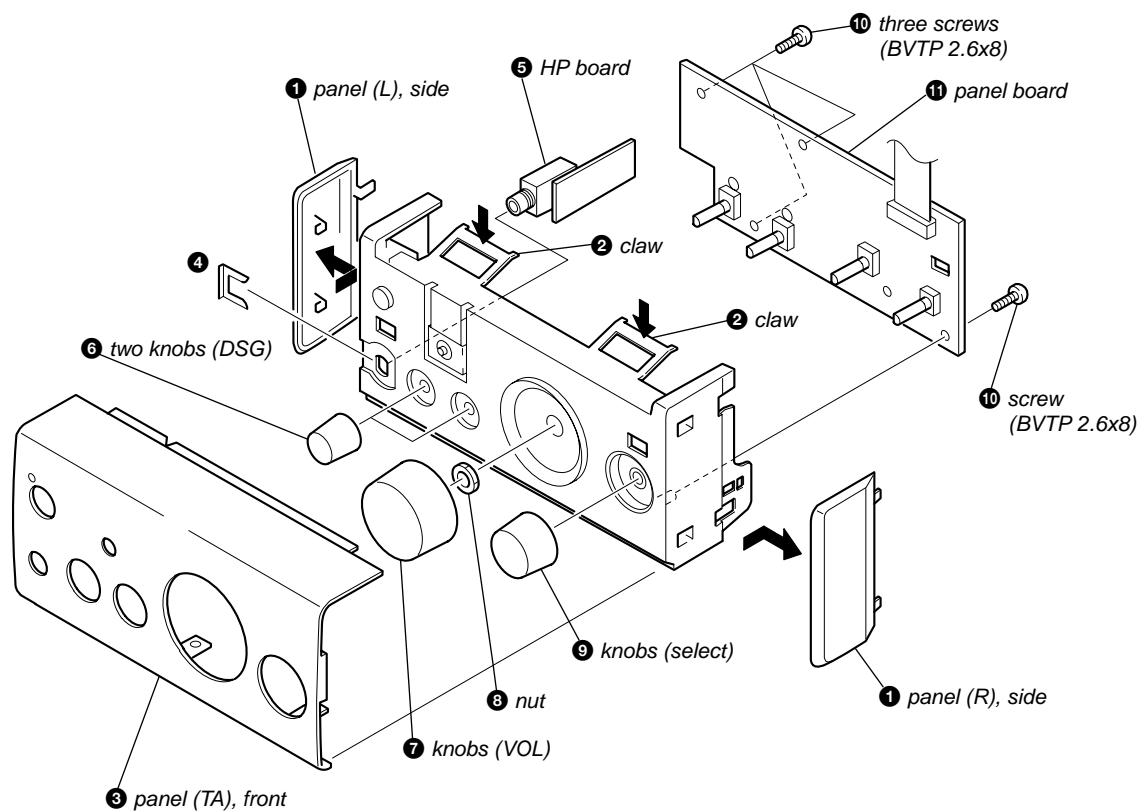
3-1. CASE



3-2. FRONT PANEL ASSY



3-3. HP BOARD, PANEL BOARD






SECTION 4 DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)





For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF: μpF
- 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.





Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

-  : B+ Line.
-  : B- Line.
-  : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
-  : FM
- Abbreviation
AED: North European model
MY: Malasia model
SP: Singapore model
HK: Hong Kong model
KR: Korea model

For printed wiring boards.

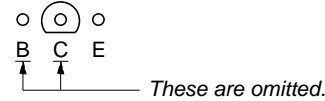
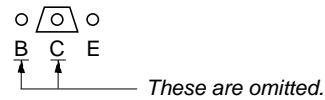
Note:

-  : parts extracted from the component side.
 -  : parts extracted from the conductor side.
 -  : Through hole.
 -  : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

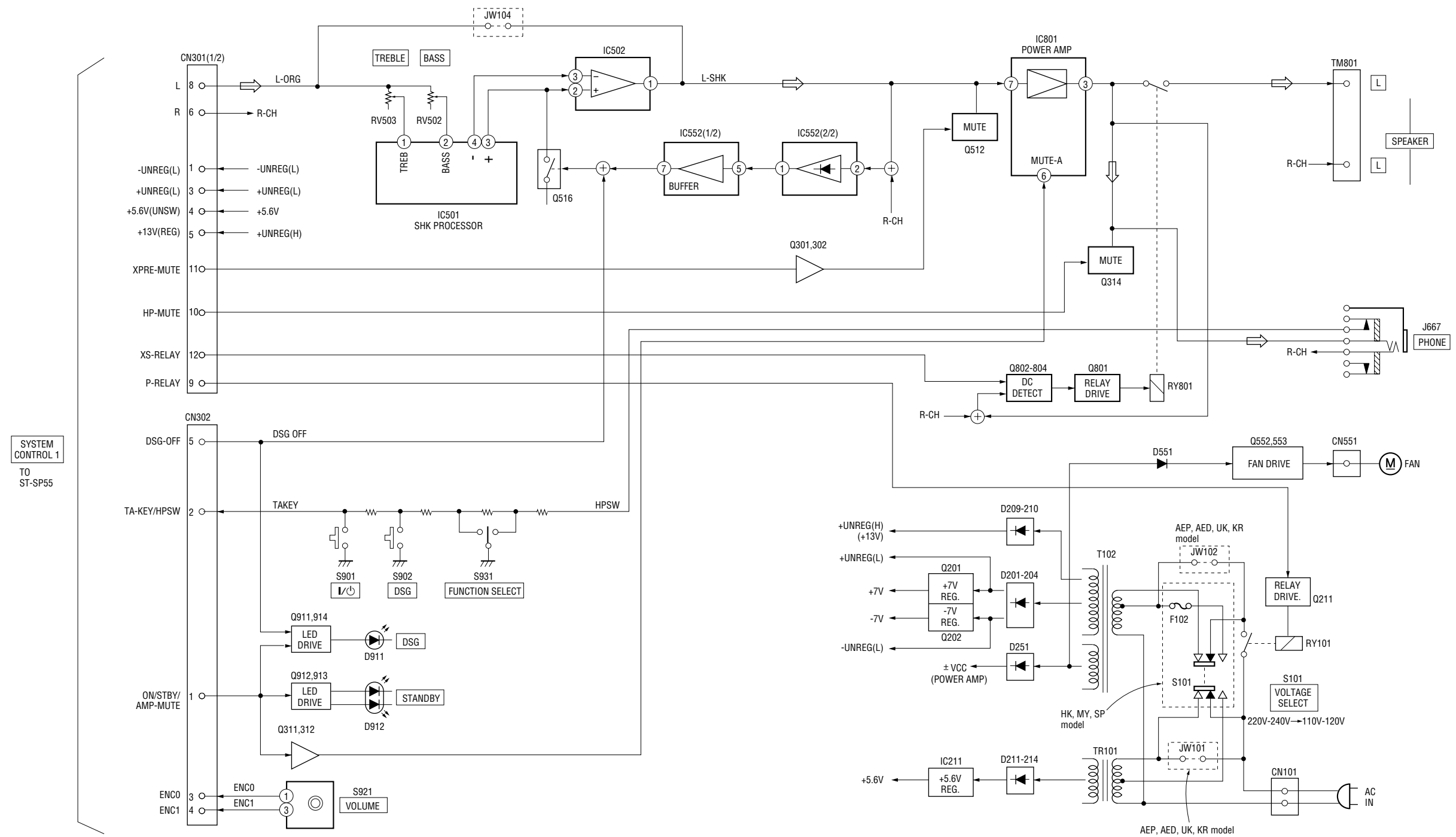
Caution:

Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

• Indication of transistor

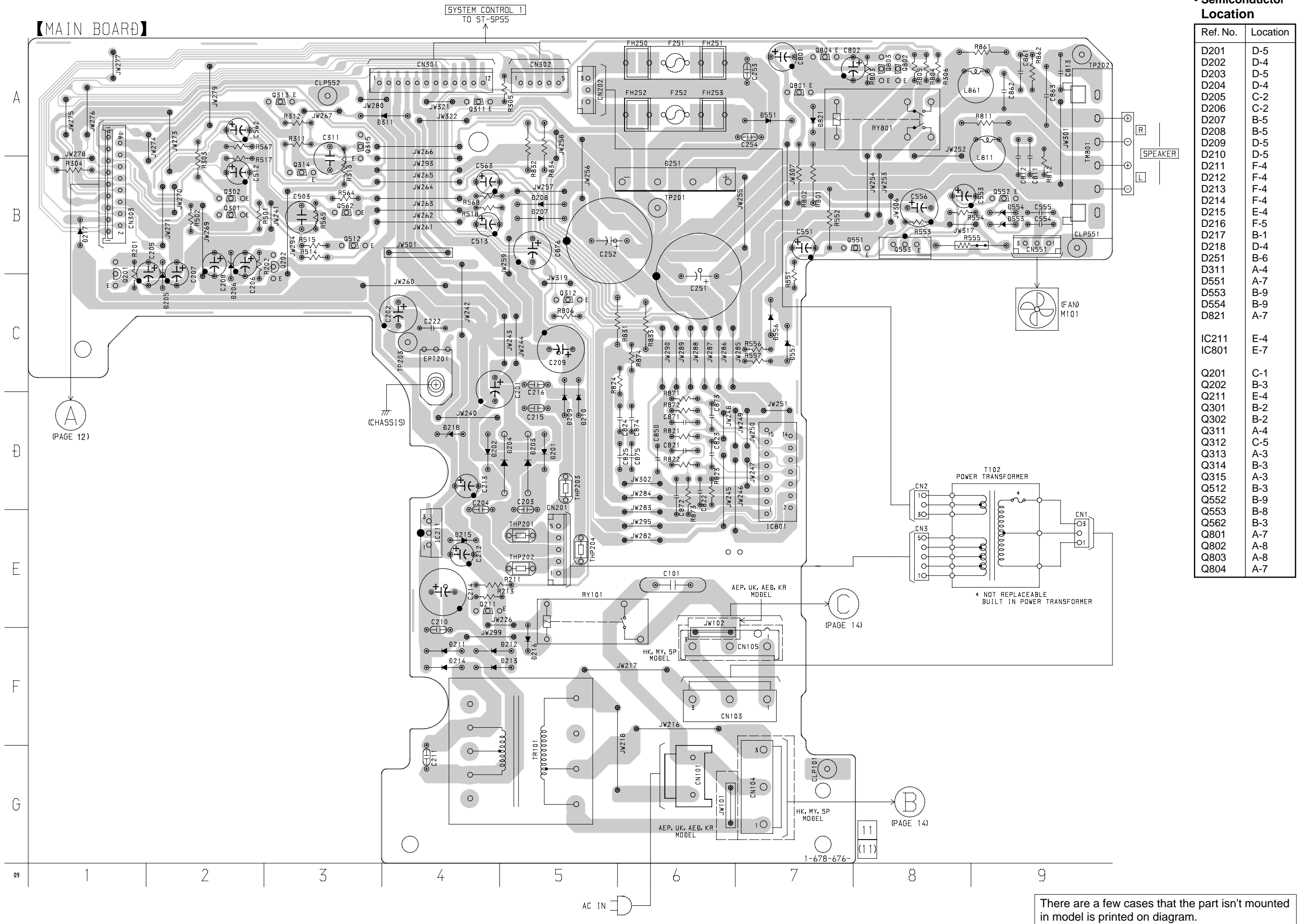


4-1. BLOCK DIAGRAM

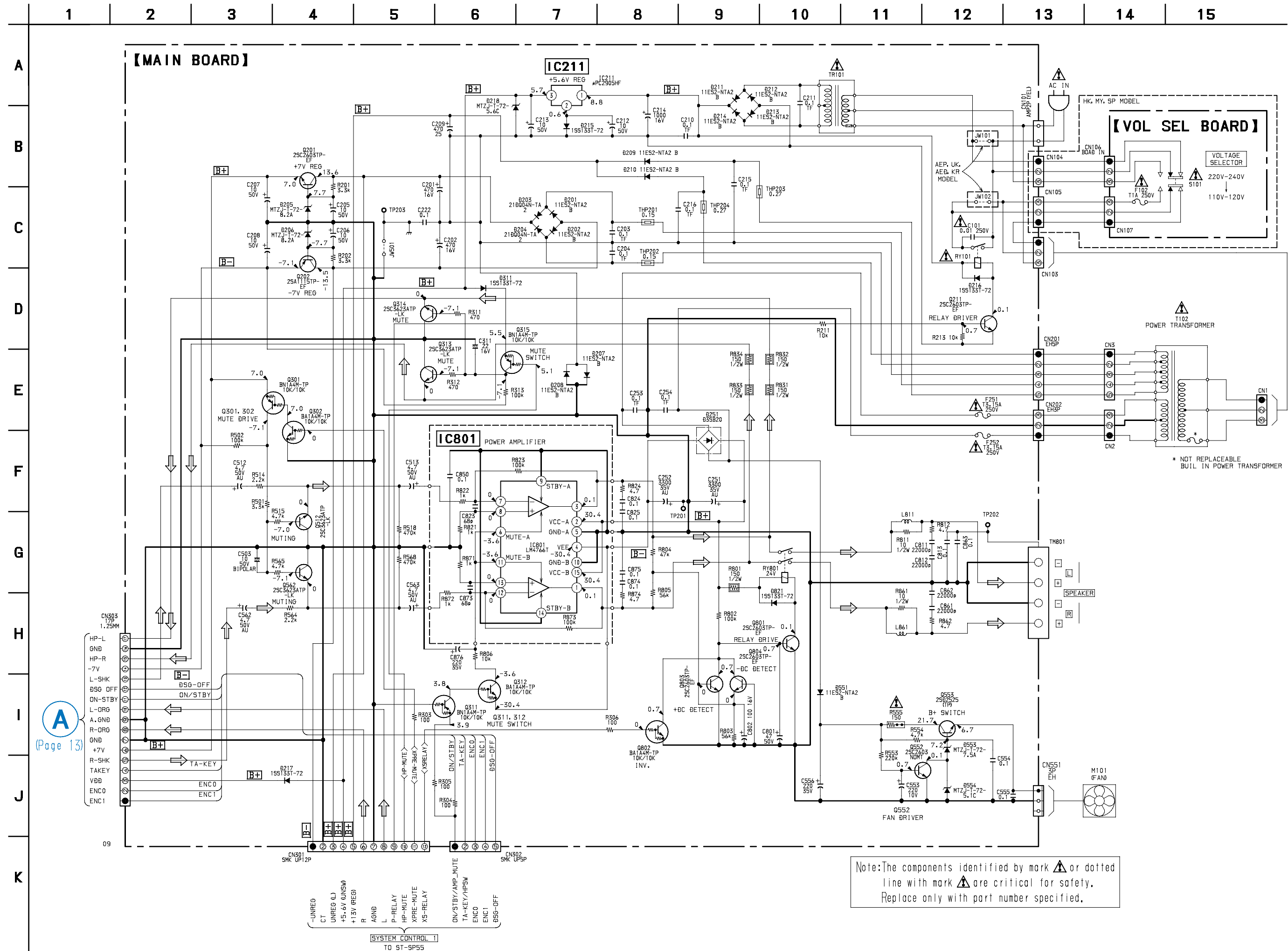


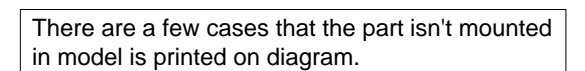
• R-ch is omitted due to same as L-ch.
• Signal Path
⇒: FM

4-2. PRINTED WIRING BOARD – MAIN SECTION –



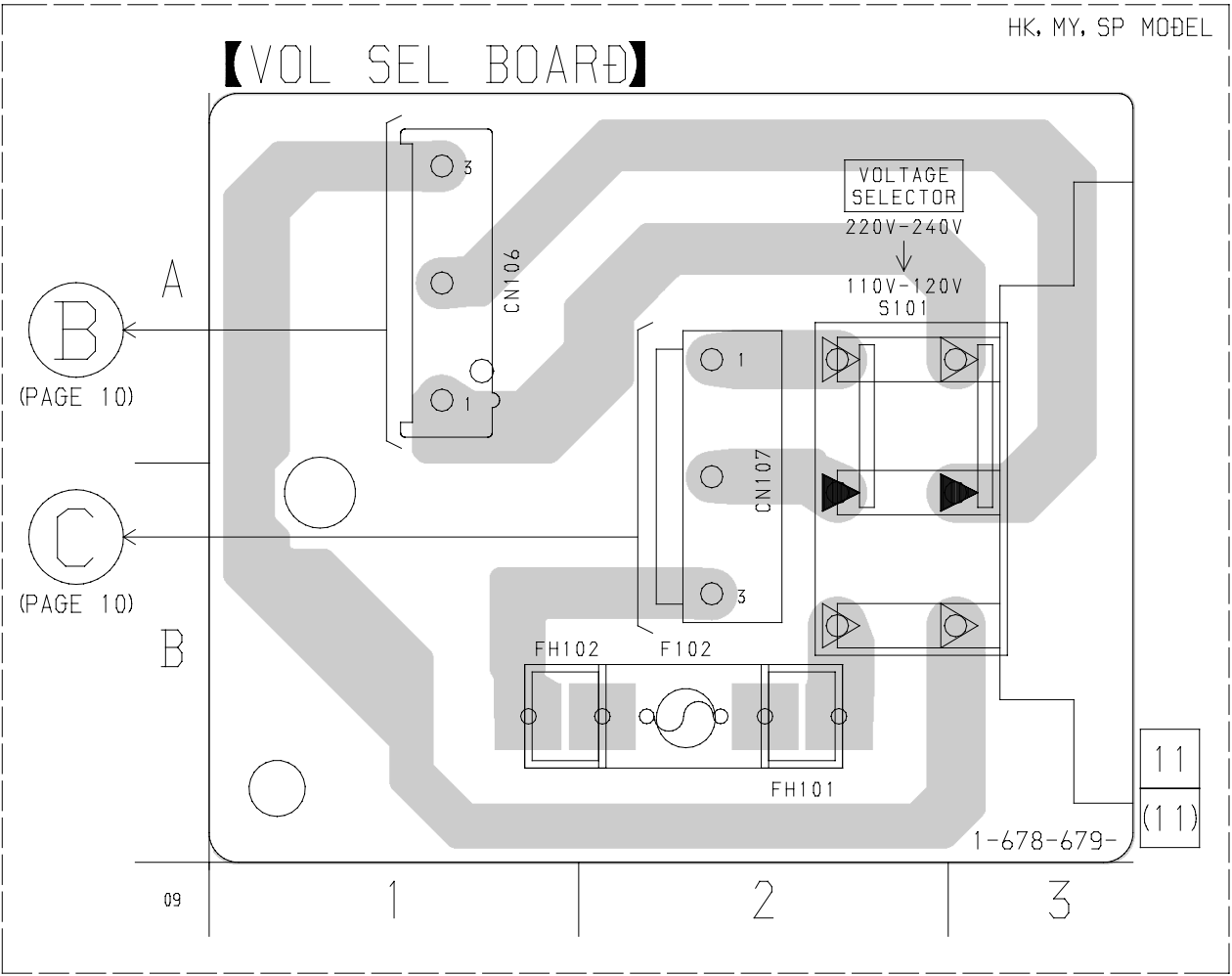
4-3. SCHEMATIC DIAGRAM – MAIN SECTION –







4-6. PRINTED WIRING BOARD – VOLSEL SECTION –



SECTION 5 EXPLODED VIEW

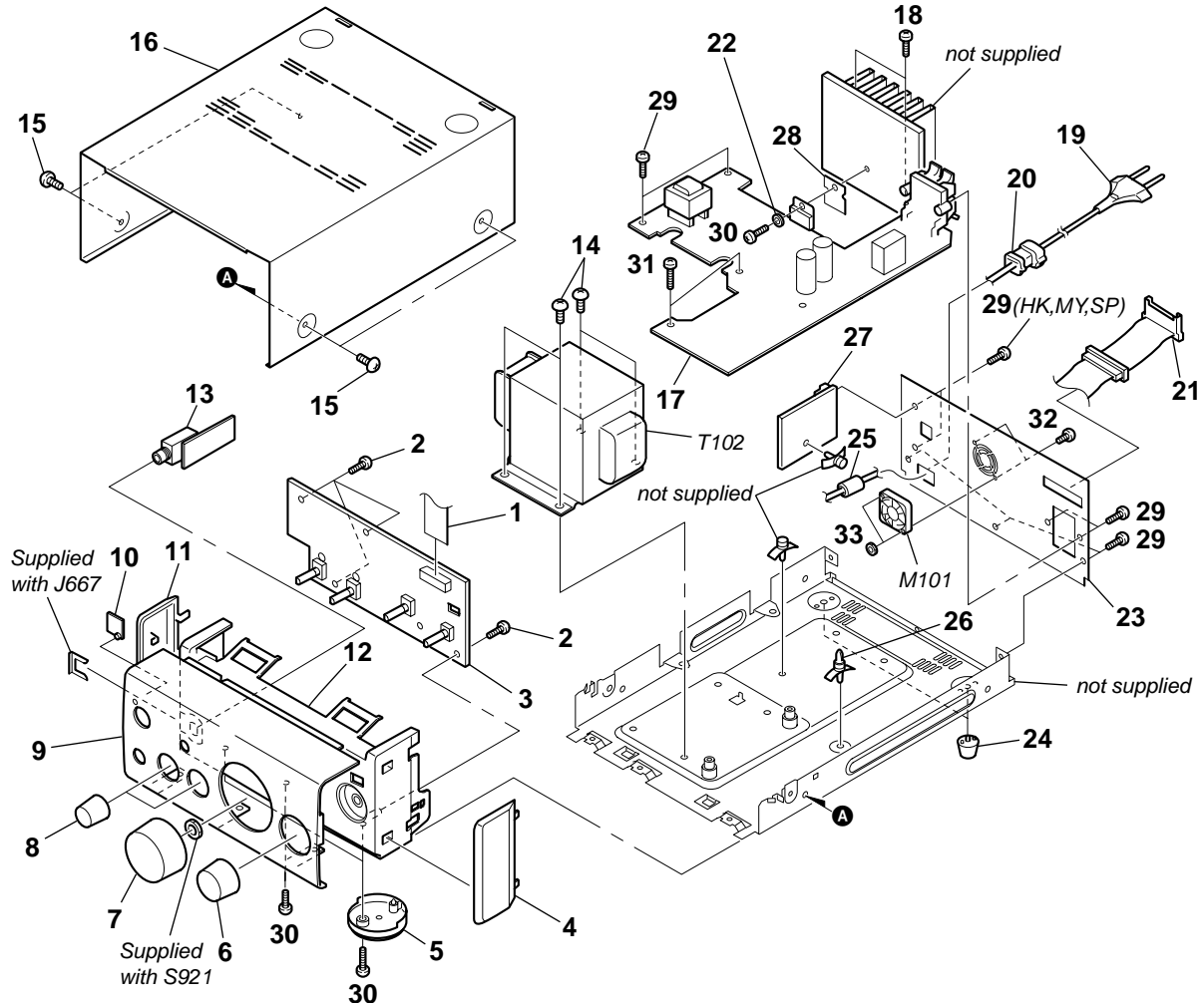
NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

- Abbreviation
AED : North European model
MY : Malaysia model
SP : Singapore model
HK : Hong Kong model
KR : Korea model

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

5-1. CASE AND FRONT PANEL



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
1	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)		\triangle 19	1-777-071-61	CORD, POWER (AEP,AED,UK,HK,MY,SP)	
2	4-951-620-01	SCREW (2.6X8), +BVTP		* 20	3-703-244-00	BUSHING (2104), CORD	
3	1-678-677-11	PANEL BOARD		21	1-792-922-11	CORD (WITH CONNECTOR)	
4	4-229-703-01	PLATE (R), SIDE		22	4-857-425-00	BUSHING, 03P INSULATING	
5	X-4953-027-1	FOOT ASSY		23	4-229-700-01	PANEL, BACK (AEP,AED,UK)	
6	4-229-692-01	KNOB (SELECT)		23	4-229-700-21	PANEL, BACK (MY,SP)	
7	4-229-691-01	KNOB (VOL)		23	4-229-700-31	PANEL, BACK (HK)	
8	4-229-693-01	KNOB (DSG)		23	4-229-700-41	PANEL, BACK (KR)	
9	4-229-690-01	PANEL(TA), FRONT		24	4-965-822-01	FOOT	
10	4-229-697-01	INDICATOR (P)		25	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
11	4-229-704-01	PLATE (L), SIDE		* 26	4-954-051-41	HOLDER, PC BOARD	
12	X-4953-023-1	PANEL ASSY (TA), SUB		27	1-678-679-11	VOL SEL BOARD (HK,MY,SP)	
13	1-678-678-11	HP BOARD		28	4-230-423-01	SHEET, INSULATING	
14	4-900-386-01	SCREW		29	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
15	3-363-099-51	SCREW (CASE 3 TP2)		30	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
16	4-229-701-31	CASE		31	7-685-650-79	SCREW +BVTP 3X16 TYPE2 N-S	
17	A-4473-728-A	MAIN BOARD, COMPLETE (AEP,AED,UK,KR)		32	7-682-563-09	SCREW +B 4X12	
17	A-4473-732-A	MAIN BOARD, COMPLETE (HK,MY,SP)		33	7-684-024-04	N 4, TYPE 2	
18	3-970-608-11	SUMITITE (B3), +BV		M101	1-698-997-21	FAN, D.C.	
\triangle 19	1-769-079-11	CORD, POWER (KR)		\triangle T102	1-435-600-11	TRANSFORMER, POWER (AEP,AED,UK,KR)	
				\triangle T102	1-435-601-11	TRANSFORMER, POWER (HK,MY,SP)	

SECTION 6 ELECTRICAL PARTS LIST

Note:



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB...,
uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
AED : North European model
MY : Malasia model
SP : Songapore model
HK : Hong Kong model
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Ref. No.	Part No.	Description				Remarks	Ref. No.	Part No.	Description				Remarks
	1-678-678-11	HP BOARD					C503	1-107-714-11	ELECT	10uF	20%	50V	
		*****					C512	1-126-047-71	ELECT	4.7uF	20%	50V	
		< CAPACITOR >					C513	1-126-047-71	ELECT	4.7uF	20%	50V	
C681	1-162-294-31	CERAMIC	0.001uF	10%	50V		C553	1-126-934-11	ELECT	220uF	20%	10V	
C682	1-162-294-31	CERAMIC	0.001uF	10%	50V		C554	1-164-159-11	CERAMIC	0.1uF		50V	
C683	1-164-159-11	CERAMIC	0.1uF		50V		C555	1-164-159-11	CERAMIC	0.1uF		50V	
C684	1-162-294-31	CERAMIC	0.001uF	10%	50V		C556	1-126-949-11	ELECT	220uF	20%	35V	
		< JACK >					C562	1-126-047-71	ELECT	4.7uF	20%	50V	
							C563	1-126-047-71	ELECT	4.7uF	20%	50V	
J667	1-774-933-11	JACK (LARGE TYPE) (PHONES)					C801	1-126-967-11	ELECT	47uF	20%	50V	
*****							C802	1-126-933-11	ELECT	100uF	20%	16V	
							C811	1-161-494-00	CERAMIC	0.022uF		25V	
	A-4473-728-A	MAIN BOARD, COMPLETE (AEP,AED,UK,KR)					C812	1-161-494-00	CERAMIC	0.022uF		25V	
		*****					C813	1-164-159-11	CERAMIC	0.1uF		50V	
							C823	1-162-219-31	CERAMIC	68PF	5%	50V	
	A-4473-732-A	MAIN BOARD, COMPLETE (HK,MY,SP)					C824	1-164-159-11	CERAMIC	0.1uF		50V	
		*****					C825	1-164-159-11	CERAMIC	0.1uF		50V	
	1-533-293-11	FUSE HOLDER					C850	1-164-159-11	CERAMIC	0.1uF		50V	
*	4-374-846-21	COVER, CAPACITOR, CAP TYPE					C861	1-161-494-00	CERAMIC	0.022uF		25V	
		< CAPACITOR >					C862	1-161-494-00	CERAMIC	0.022uF		25V	
							C863	1-164-159-11	CERAMIC	0.1uF		50V	
							C873	1-162-219-31	CERAMIC	68PF	5%	50V	
△C101	1-113-925-11	CERAMIC	0.01uF	20%	250V								
C201	1-126-935-11	ELECT	470uF	20%	16V		C874	1-164-159-11	CERAMIC	0.1uF		50V	
C202	1-126-935-11	ELECT	470uF	20%	16V		C875	1-164-159-11	CERAMIC	0.1uF		50V	
C203	1-136-165-00	MYLAR	0.1uF	5%	50V		C876	1-126-949-11	ELECT	220uF	20%	35V	
C204	1-136-165-00	MYLAR	0.1uF	5%	50V								

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

MAIN

PANEL

VOL SEL

Ref. No.	Part No.	Description	Remarks
< POWER TRANSFORMER >			
△ TR101	1-435-624-11	TRANSFORMER, POWER (AEP,AED,UK,KR)	
△ TR101	1-435-625-11	TRANSFORMER, POWER (HK,MY,SP)	

	1-678-677-11	PANEL BOARD	

< CAPACITOR >			
C501	1-161-494-00	CERAMIC 0.022uF	25V
C502	1-161-494-00	CERAMIC 0.022uF	25V
C511	1-110-337-51	MYLAR 150PF 5%	50V
C522	1-126-157-11	ELECT 10uF 20%	16V
C523	1-126-157-11	ELECT 10uF 20%	16V
C524	1-126-933-11	ELECT 100uF 20%	16V
C525	1-164-159-11	CERAMIC 0.1uF	50V
C526	1-164-159-11	CERAMIC 0.1uF	50V
C561	1-110-337-51	MYLAR 150PF 5%	50V
C921	1-161-494-00	CERAMIC 0.022uF	25V
C922	1-161-494-00	CERAMIC 0.022uF	25V
C925	1-164-159-11	CERAMIC 0.1uF	50V
C926	1-164-159-11	CERAMIC 0.1uF	50V
C927	1-164-159-11	CERAMIC 0.1uF	50V
C931	1-161-494-00	CERAMIC 0.022uF	25V
C932	1-161-494-00	CERAMIC 0.022uF	25V
< LEAD >			
* CLP925	1-690-880-31	LEAD (WITH CONNECTOR)	
< CONNECTOR >			
CN911	1-784-739-11	CONNECTOR, FFC 17P	
< DIODE >			
D522	8-719-911-19	DIODE 1SS133T-72	
D523	8-719-911-19	DIODE 1SS133T-72	
D911	8-719-071-42	DIODE SEL5723C-TP15 (DSG ON/OFF)	
D912	8-719-056-11	DIODE SML72423C-TP15 (STANDBY)	
< IC >			
IC501	8-749-015-28	IC SSE-96G	
IC502	8-759-705-58	IC NJM4558D-D	
IC522	8-759-705-58	IC NJM4558D-D	
< TRANSISTOR >			
Q511	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q561	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q911	8-729-422-57	TRANSISTOR BN1A4M-TP	
Q912	8-729-422-57	TRANSISTOR BN1A4M-TP	
Q913	8-729-900-80	TRANSISTOR BA1A4M-TP	
Q914	8-729-900-80	TRANSISTOR BA1A4M-TP	
< RESISTOR >			
R511	1-249-435-11	CARBON 33K 5%	1/4W
R512	1-249-425-11	CARBON 4.7K 5%	1/4W F
R513	1-249-433-11	CARBON 22K 5%	1/4W
R516	1-249-429-11	CARBON 10K 5%	1/4W
R520	1-249-409-11	CARBON 220 5%	1/4W F
R521	1-249-409-11	CARBON 220 5%	1/4W F

Ref. No.	Part No.	Description	Remarks
R522	1-249-429-11	CARBON 10K 5%	1/4W
R523	1-249-429-11	CARBON 10K 5%	1/4W
R524	1-249-429-11	CARBON 10K 5%	1/4W
R525	1-249-429-11	CARBON 10K 5%	1/4W
R526	1-249-441-11	CARBON 100K 5%	1/4W
R527	1-249-429-11	CARBON 10K 5%	1/4W
R528	1-249-429-11	CARBON 10K 5%	1/4W
R561	1-249-435-11	CARBON 33K 5%	1/4W
R562	1-249-425-11	CARBON 4.7K 5%	1/4W F
R563	1-249-433-11	CARBON 22K 5%	1/4W
R566	1-249-429-11	CARBON 10K 5%	1/4W
R570	1-249-409-11	CARBON 220 5%	1/4W F
R571	1-249-409-11	CARBON 220 5%	1/4W F
R901	1-249-425-11	CARBON 4.7K 5%	1/4W F
R902	1-249-427-11	CARBON 6.8K 5%	1/4W F
R903	1-249-429-11	CARBON 10K 5%	1/4W
R904	1-249-430-11	CARBON 12K 5%	1/4W
R911	1-249-409-11	CARBON 220 5%	1/4W F
R912	1-249-413-11	CARBON 470 5%	1/4W F
R913	1-249-412-11	CARBON 390 5%	1/4W F
R914	1-247-807-31	CARBON 100 5%	1/4W
R915	1-247-807-31	CARBON 100 5%	1/4W
R916	1-249-429-11	CARBON 10K 5%	1/4W
< VARIABLE RESISTOR >			
RV502	1-227-202-11	RES, VAR 1K (DSG FREQ. LOW)	
RV503	1-227-202-11	RES, VAR 1K (DSG FREQ. HIGH)	
< SWITCH >			
S901	1-771-410-21	SWITCH, TACTILE (I/⏻)	
S902	1-771-410-21	SWITCH, TACTILE (DSG ON/OFF)	
S921	1-476-087-11	ENCODER, ROTARY (VOLUME)	
S931	1-771-963-11	SWITCH (FUNCTION)	

	1-678-679-11	VOL SEL BOARD (HK,MY,SP)	

	1-533-293-11	FUSE HOLDER (HK,MY,SP)	
< CONNECTOR >			
* CN107	1-564-687-11	PIN, CONNECTOR 3P (HK,MY,SP)	
< FUSE >			
△ F102	1-532-463-31	FUSE 1A/250V (HK,MY,SP) (HK,MY,SP)	
< SWITCH >			
△ S101	1-571-309-11	SWITCH (VOLTAGE SELECTOR) (HK,MY,SP)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remarks</u>
		MISCELLANEOUS	

1	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)	
△ 19	1-769-079-11	CORD, POWER (KR)	
△ 19	1-777-071-61	CORD, POWER (AEP,AED,UK,HK,MY,SP)	
21	1-792-922-11	CORD (WITH CONNECTOR)	
25	1-500-386-11	FILTER, CLAMP (FERRITE CORE)	
M101	1-698-997-21	FAN, D.C.	
△ T102	1-435-600-11	TRANSFORMER, POWER (AEP,AED,UK,KR)	
△ T102	1-435-601-11	TRANSFORMER, POWER (HK,MY,SP)	

		ACCESSORIES & PACKING MATERIALS	

△	1-569-008-21	ADAPTOR, CONVERSION 2P (MY,SP)	
△	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK,HK)	

